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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,273	06/30/2004	Bruce B. Doris	FIS920030368US1 4272	
32074	7590 10/05/2005		EXAMINER	
INTERNATIONAL BUSINESS MACHINES CORPORATION			ERDEM, FAZLI	
DEPT. 18G BLDG. 300-482		ART UNIT	PAPER NUMBER	
2070 ROUTE 52			2826	
HOPEWELL JUNCTION, NY 12533			DATE MAILED: 10/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/710,273	DORIS ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Fazli Erdem	2826			
Period fo	The MAILING DATE of this communication aport Reply	opears on the cover sheet with the o	orrespondence address			
THE - External after aft	IORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statuted patent term adjustment. See 37 CFR 1.704(b).	. .136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 02	August 2004.				
2a)□		is action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) 🔀 6) 🔀 7) 🔲	Claim(s) <u>1-18</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrawith Claim(s) <u>1-13</u> is/are allowed. Claim(s) <u>14-18</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.				
Applicat	ion Papers					
9)	The specification is objected to by the Examin	ier.				
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E		•			
Priority :	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	nts have been received. Ints have been received in Application on the second s	ion No ed in this National Stage			
Attachmen	ıt(s)					
	ce of References Cited (PTO-892)	4) Interview Summary	·			
3) X Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date <u>08/02/2004</u> .	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-13 allowed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 14-18 rejected under 35 U.S.C. 102(e) as being anticipated by Hanafi et al. (6,841,831)

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding Claim 14, Hanafi et al. disclose a fully-depleted MOSFETs with low soruce and drain resistance and minimal overlap capacitance using recessed channel damascene gate process where in Fig. 13, it is disclosed a MOSFET device comprising a silicon on insulator substrate 10 having a SOI layer 14 in which a middle first portion 30 has a thickness of between 10-20 nm (as disclosed in claim 8), a gate 38 including a gate dielectric 36 and gate electrode 38

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on top of the first portion of the SOI layer labeled as 30 having a thickness between 10-20 nm, source and drain diffusion regions are located to the left and right of the middle portion 30 where the side portions to the left and right of the middle portion are thicker than the middle portion

Regarding Claim 15, elements 34 are the spacers about the gate.

Regarding Claim 16, gate conductor comprises doped polysilicon

Regarding Claims 17 and 18, portion 30 is the channel beneath gate conductor 38 and it could be doped or undoped.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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October 1, 2005

NATHAN J. FLANN SUPERVISORY PAPENT EXAMINER TECHNOLOGY CENTER 2800